

IN THE UNITED STATES PATENT  
AND TRADEMARK OFFICE

Atty Dkt  
UCF-306CIB

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APR 24 2003  
TECHNOLOGY CENTER-2800

Applicant: Richardson

Serial No.: 10/082,658

Filed: 10/19/01

For: EUV, XUV, AND X-RAY WAVELENGTH SOURCES CREATED FROM  
LASER PLASMA PRODUCED FROM LIQUID METAL SOLUTIONS, AND NANO-SIZE  
PARTICLES IN SOLUTIONS

Examiner: Courtney D. Thomas

Group: 2882

Paper No.: #4/a

RESPONSE

Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

Sir:

In response to the office action mailed January 16, 2003, please amend the above  
identified application as follows:

IN THE CLAIMS

Please amend the claims as follows:

Claim 1(Amended). A method of generating optical emissions from metallic point sources,  
comprising the steps of:

forming micron-size droplets having individual droplet diameters of approximately 10  
micrometers to approximately 100 micrometers, each containing nano-size particles, each nano-  
size particle ranging in size from approximately 5nm to approximately 100nm;

passing the droplets into individual target sources;

irradiating the individual target sources with a laser beam having substantially identical  
diameter to each of the individual droplets; and

producing optical emissions from the irradiated target sources, wherein the steps of  
forming, passing, irradiating and producing occur at room temperature.



Atty Dkt.: UCF-306CIP

THE UNITED STATES PATENT AND TRADEMARK OFFICE  
IN THE UNITED STATES PATENT  
AND TRADEMARK OFFICE

2882/10

#41

Applicant: Richardson

Serial No.: 10/082,658

Filed: 10/19/01

For: EUV, XUV, AND X-RAY WAVELENGTH SOURCES CREATED FROM LASER PLASMA  
PRODUCED FROM LIQUID METAL SOLUTIONS, AND NANO-SIZE PARTICLES IN SOLUTIONS

Examiner: Courtney D. Thomas

Group: 2882

Paper No.: \_\_

Commissioner of Patent and Trademarks  
Washington, D.C. 20231

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

MAILED:

4/16/03

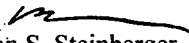
Honorable Commissioner:

I enclose

1. AMENDMENT RESPONSE & ARGUMENTS
2. CLEAN COPY OF CLAIMS
3. CHECK PAYABLE TO ASST. COMM. FOR \$72.00(to cover extra eight(8) dependent claims.

Please enter the above correspondence.

Respectfully submitted,

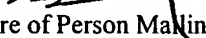
  
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CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner of Patents and Trademarks, Patent and Trademark Office, Washington, D.C. 20231.

4/16/03  
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Brian S. Steinberger  
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